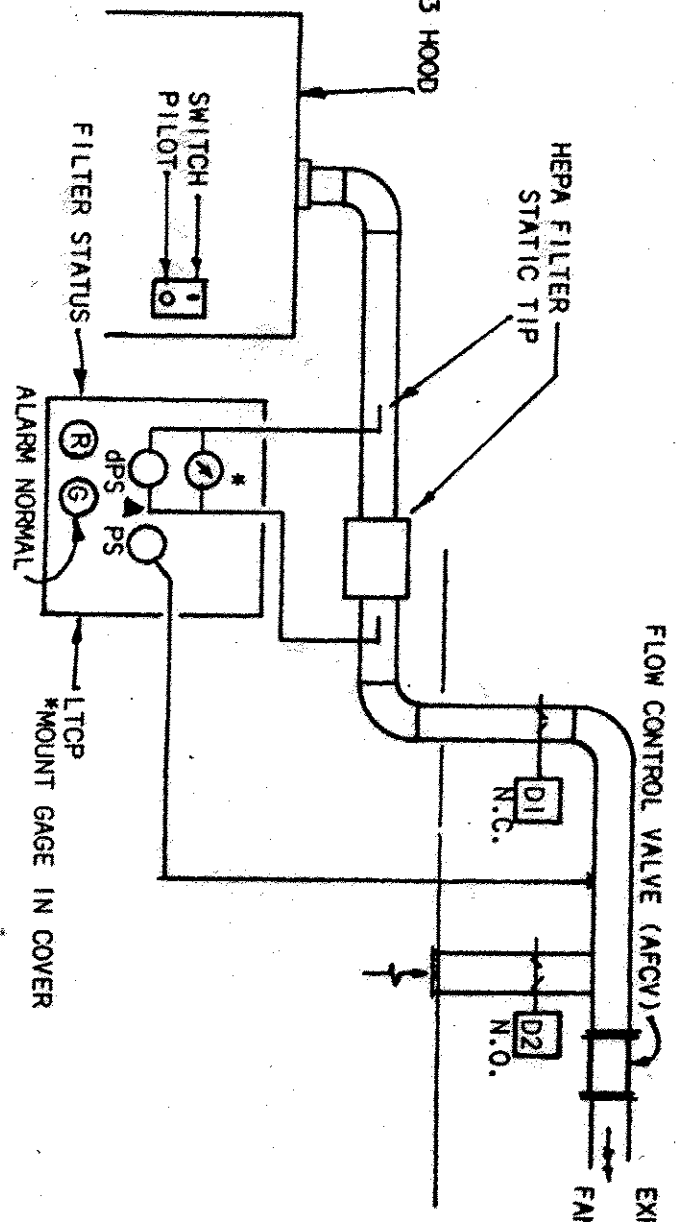


- ROOMSTAT SHALL MODULATE BOX VOLUME CONTROL FROM AIR FLOW INDICATED ON DRAWINGS FOR MAXIMUM COOLING TO ZERO AIR FLOW.
- ROOMSTAT SHALL BE SET FOR 78°F



SYMBOLS
MAGNETIC GAGE, 0-3 INCH RANGE, WITH RED POINTER FLAG SET AT 2 INCHES WATER.

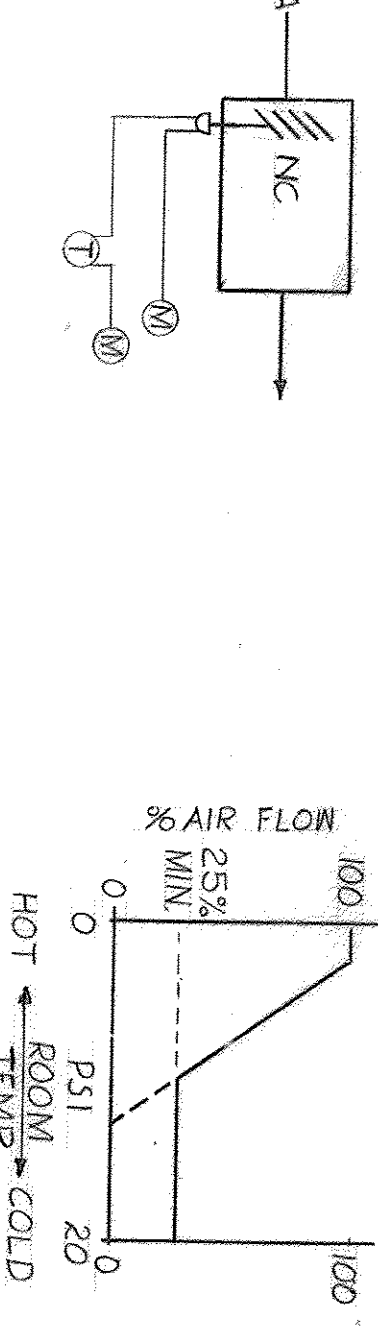
PS DIFFERENTIAL PRESSURE SWITCH, 0-3 INCHES RANGE TO OPERATE FILTER STATUS LIGHTS.

PS PRESSURE SWITCH, 0.15 TO 0.3 INCHES WATER OPERATING RANGE.

SEQUENCE OF OPERATION

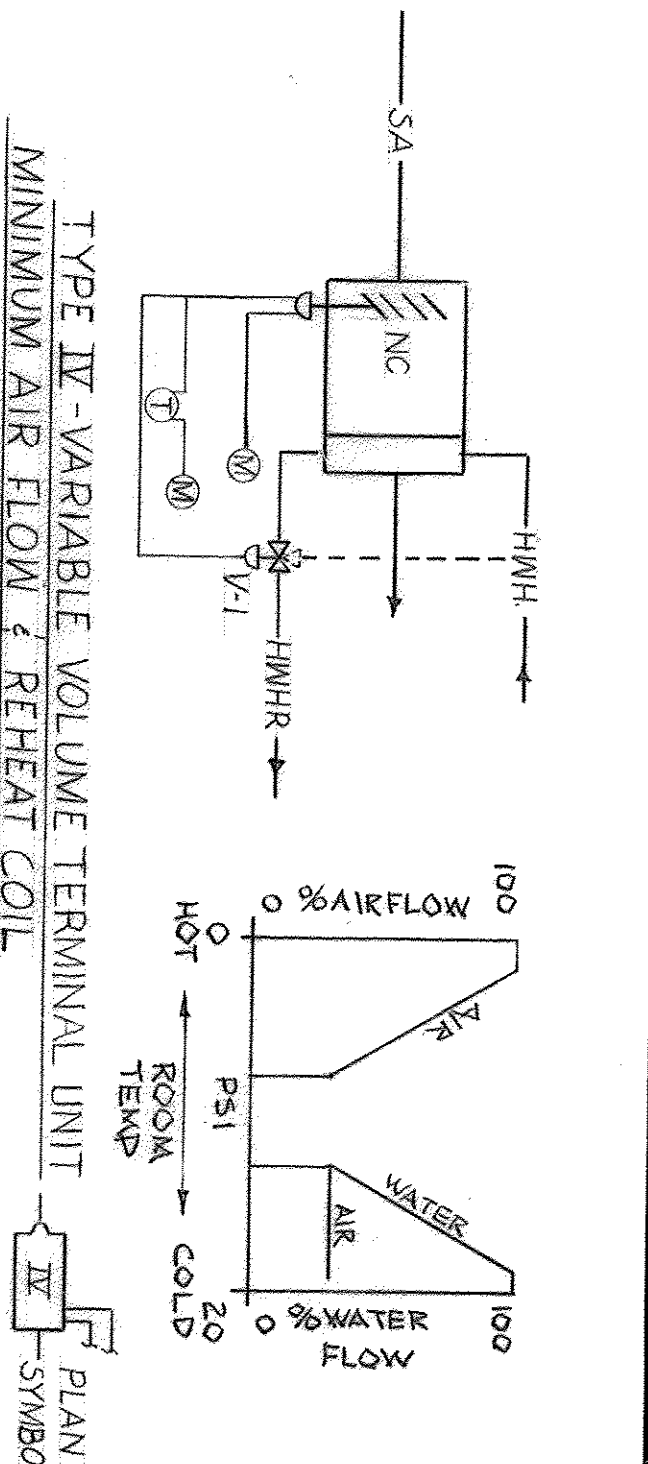
- THE HOOD EXHAUST FAN SHALL RUN CONTINUOUSLY.
- WHEN H3 HOOD SWITCH IS ON, D1 SHALL BE OPEN, D2 CLOSED. STATIC PRESSURE RISES TO 2 IN. WHEN THE RED FILTER STATUS ALARM LIGHT SHALL BE ENERGIZED.
- WHEN H3 HOOD SWITCH IS OFF, D1 SHALL BE CLOSED, D2 OPEN.

PHOTOISOTOPE HMOO, H3, CONSTANT VOLUME EXHAUST CONTROLS

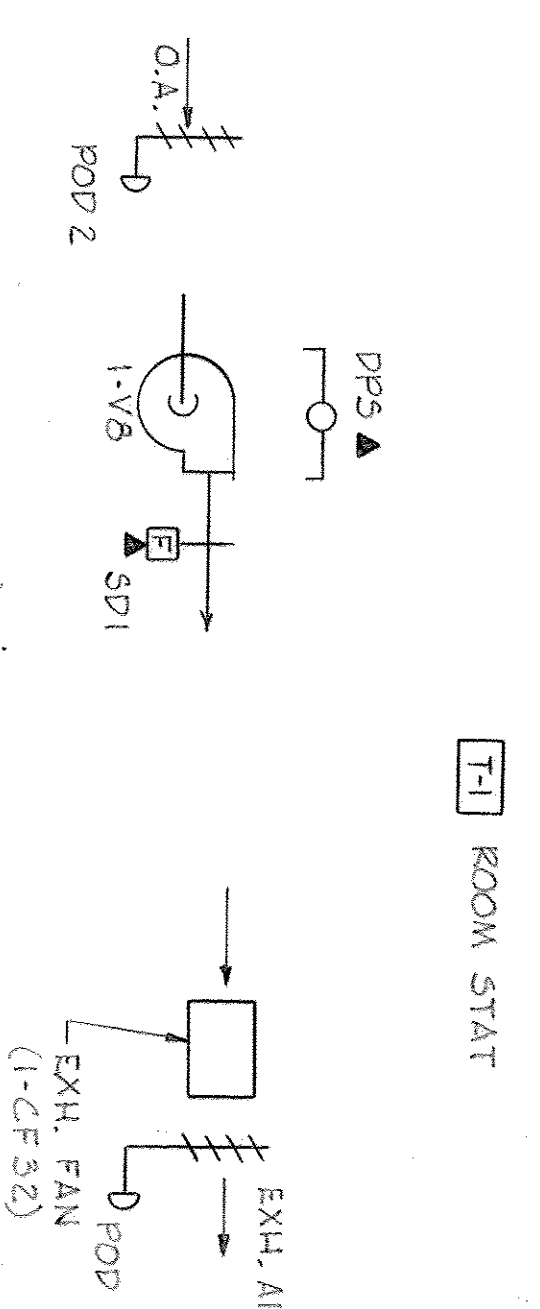


TYPE III - VARIABLE VOLUME TERMINAL UNIT
MINIMUM AIR FLOW 25%

- ROOMSTAT SHALL MODULATE BOX VOLUME CONTROL FROM AIR FLOW INDICATED ON DRAWINGS FOR MAXIMUM COOLING TO 25% MINIMUM FLOW.
- ROOMSTAT SHALL BE SET FOR 78°F
- ROOMS WHERE MINIMUM AIRFLOW VARIES FROM 25% ARE INDICATED ON THE FLOOR PLANS.

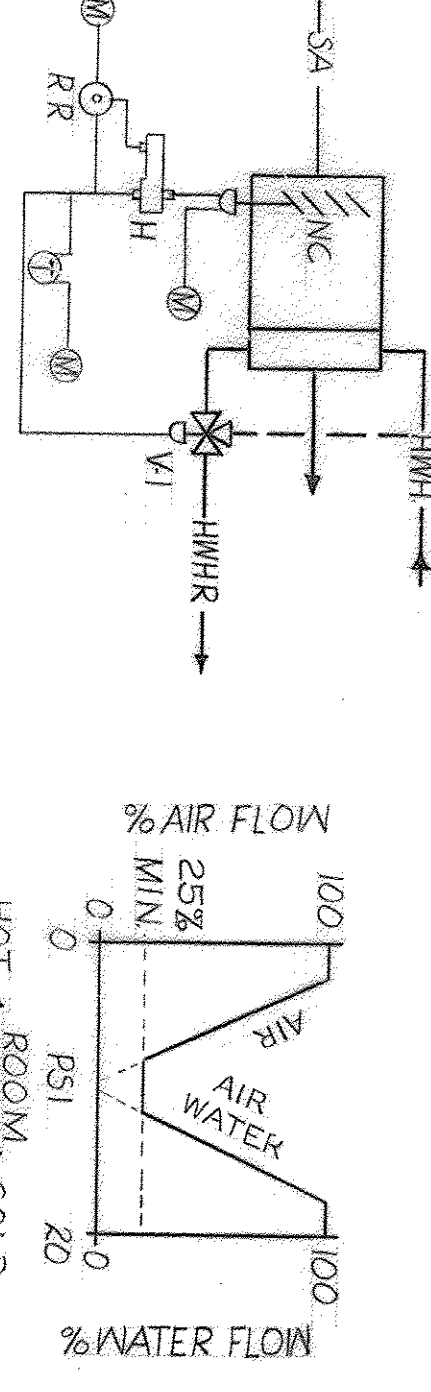


- ROOMSTAT SHALL MODULATE BOX VOLUME CONTROL FROM AIR FLOW INDICATED ON DRAWINGS FOR MAXIMUM COOLING TO 25% MINIMUM FLOW.
- VALVE V-1 SHALL BE TWO-WAY ON ONE OF THE UNITS AND THREE-DISTRIBUTED EVENLY THROUGHOUT THE SYSTEM ON ALL BOX SIZES.
- ROOMSTAT SHALL BE "DEAD-BAND" TYPE TO MAINTAIN ROOM AT 78°F FOR COOLING AND AT 72°F FOR HEATING.
- ROOMS WHERE MINIMUM AIRFLOW VARIES FROM 25% ARE INDICATED ON THE FLOOR PLANS.



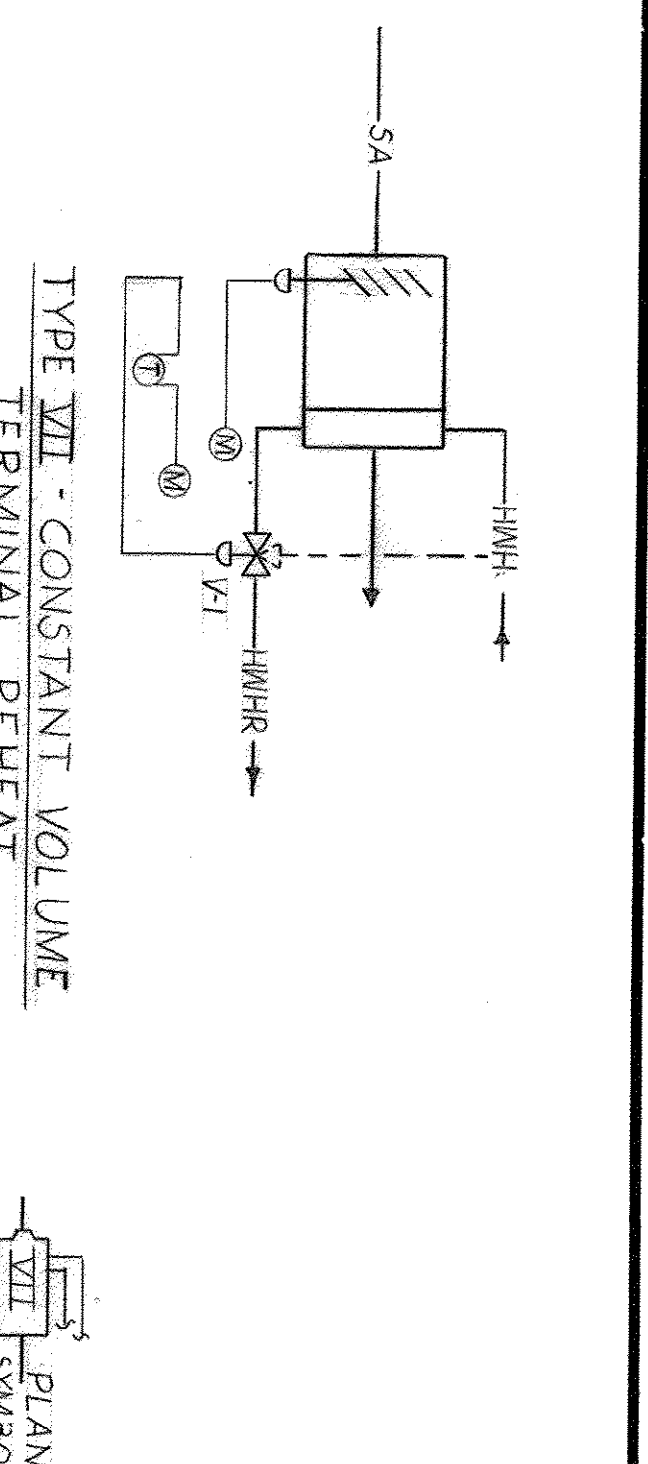
SWITCHER ROOM VENTILATION

- ROOMSTAT T-1 OPENS PDD-1 AND STARTS EXHAUST FAN WHEN TEMPERATURE EXHAUST FAN. WHEN T-10 STOPS, PDD-2 OPENS.
- FANS STOP, PDD-1 AND PDD-2 CLOSE, WHEN TEMPERATURE FALLS TO 78°F.
- WHEN SMOKE IS SENSED AT SP-1, FANS STOP AND PDD-1 AND PDD-2 CLOSE.



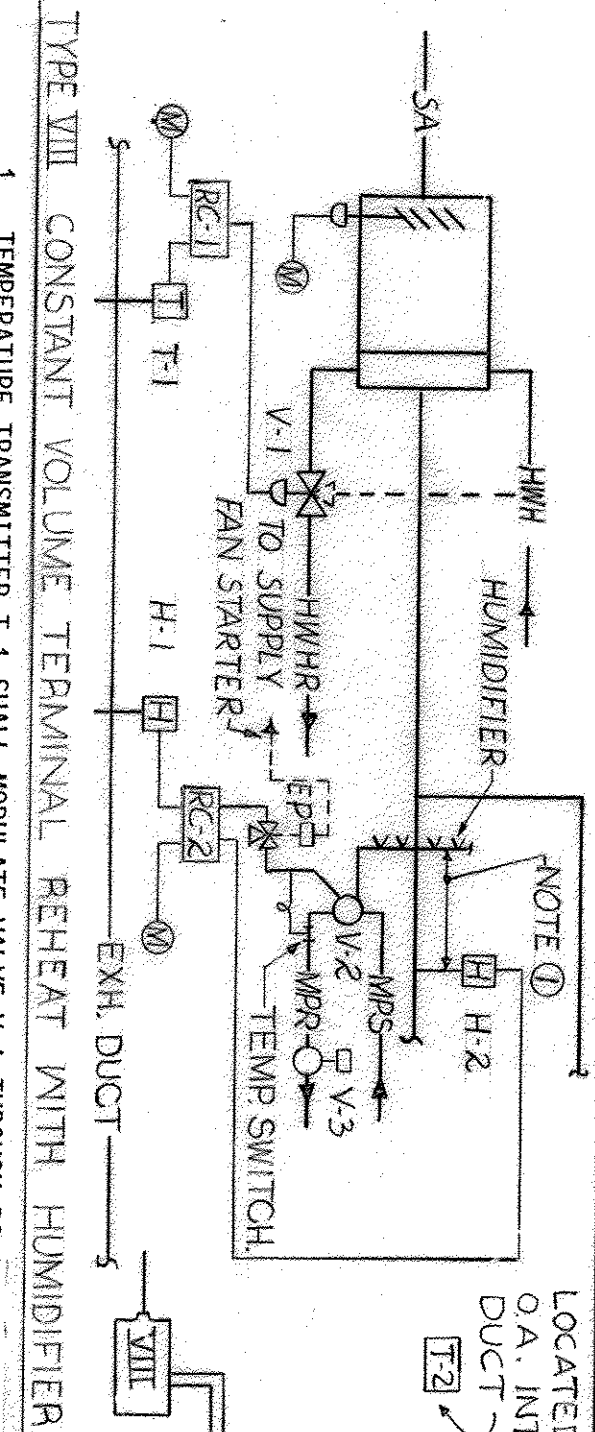
TYPE VI - VARIABLE VOLUME TERMINAL UNIT
MINIMUM AIR FLOW FOR COOLING AND INCREASING AIR FLOW FOR HEATING

- ROOMSTAT SHALL MODULATE BOX VOLUME CONTROL FROM AIR FLOW INDICATED ON DRAWINGS FOR MAXIMUM COOLING TO 25% MINIMUM FLOW INDICATED.
- FOR HEATING CYCLE REVERSING RELAY (RR) SHALL REVERSE MAXIMUM AIR FLOW AND ALSO MODULATE VALVE V-1 FOR HEATING.
- VALVE V-1 SHALL BE TWO-WAY ON ONE OF THE UNITS AND THREE-DISTRIBUTED EVENLY THROUGHOUT THE SYSTEM ON ALL BOX SIZES.
- ROOM THERMOSTAT SHALL BE "DEAD-BAND" TYPE TO MAINTAIN ROOM AT 78°F FOR COOLING AND AT 72°F FOR HEATING.
- ROOMS WHERE MINIMUM AIRFLOW VARIES FROM 25% ARE INDICATED ON THE FLOOR PLANS.



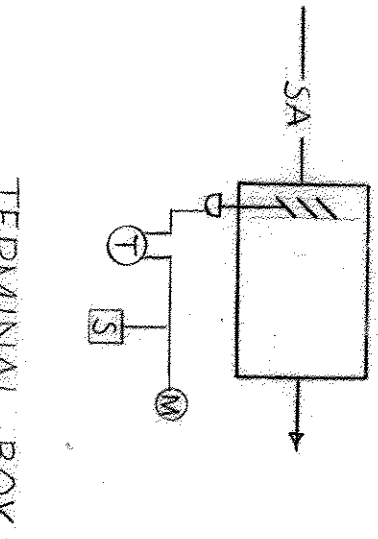
TYPE VII - CONSTANT VOLUME TERMINAL REHEAT

- TERMINAL BOX MAINTAIN AND MAXIMUM VOLUME CONSTANT VOLUME FLOW.
- ROOMSTAT SHALL MODULATE VALVE V-1 TO MAINTAIN ROOM AT 78°F. FOR COOLING AND AT 72°F FOR HEATING. VALVE V-1 SHALL BE TWO-WAY ON ONE OF THE UNITS AND THREE-DISTRIBUTED EVENLY THROUGHOUT THE SYSTEM ON ALL BOX SIZES.



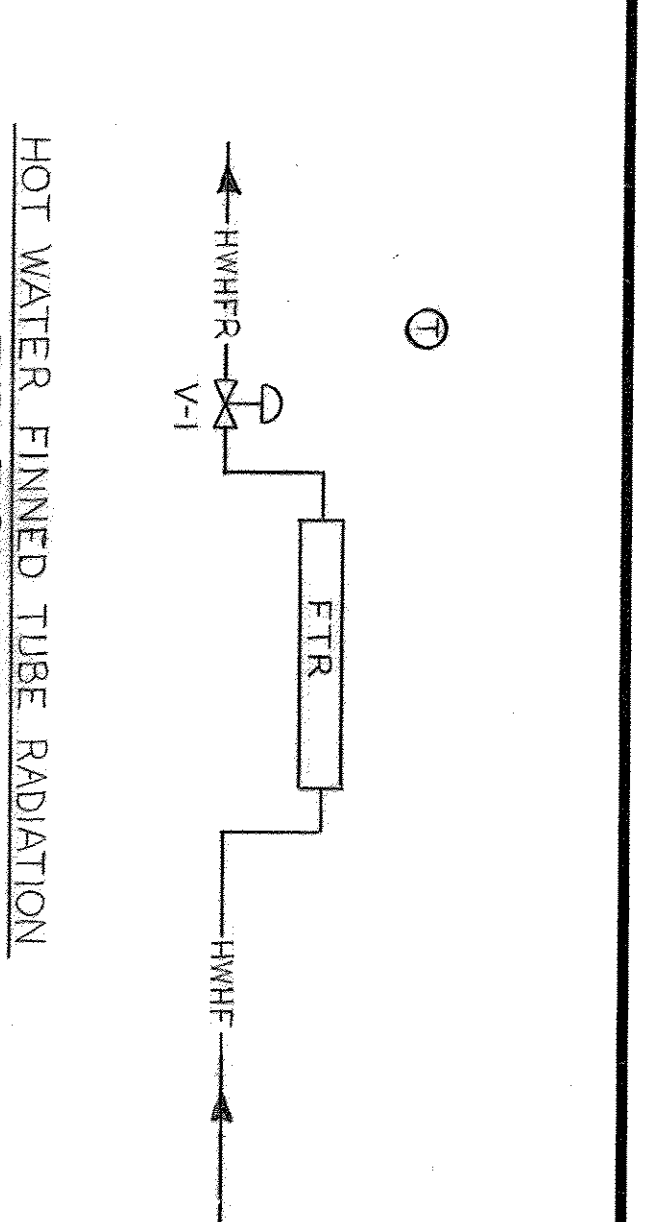
TYPE VIII - CONSTANT VOLUME TERMINAL REHEAT WITH HUMIDIFIER

- TEMPERATURE TRANSDUCER T-1 SHALL MODULATE VALVE V-1 THROUGH RC-1 TO MAINTAIN SPACE TEMPERATURE.
- VALVE V-1 SHALL BE TWO-WAY ON ONE OF THE UNITS AND THREE-WAY ON THE OTHERS. RC-2, V-2 TRANSMITTED WITH HUMIDIFIER.
- RELATIVE HUMIDITY TRANSDUCER H-1 SHALL MODULATE VALVE V-2 THROUGH RC-2 TO MAINTAIN SPACE HUMIDITY. HIGH LIMIT STAT H-2, SET AT 85% R.H., OVERRIDES RC-2. V-2 TRANSMITTED WITH HUMIDIFIER.
- DUCT THERMOSTAT T-2 SHALL CLOSE ON OFF TWO-WAY VALVE V-3 WHEN SMOKE TEMPERATURE RISES ABOVE 60° AND OPEN VALVE V-3 WHEN OUT-SIDE TEMPERATURE IS BELOW 59°F.
- T-1 AND H-1 SHALL BE LOCATED IN THE INTERSTITIAL SPACE IN EXHAUST AIR DUCT FROM OPERATING ROOM.
- RC-1 AND RC-2 ARE TEMPERATURE AND HUMIDITY RECEIVER CONTROLLERS WITH SET POINT ADJUSTING DEVICES LOCATED IN O.R. SUPERVISORY PANEL LOCATED IN CONTROL ROOM 50020 (SEE DETAIL BELOW).
- V-2 SHALL BE INTERLOCKED WITH TEMPERATURE SWITCH TO KEEP HUMIDIFIER OFF UNTIL CONDENSATE APPROXIMATE TEMPERATURE - TEMPERATURE SWITCH FURNISHED WITH HUMIDIFIER.
- V-2 SHALL CLOSE WHENEVER SUPPLY FAN IS OFF.
- NOTE 1: LOCATE H-2 A MINIMUM OF 10'-0" FROM HUMIDIFIER.



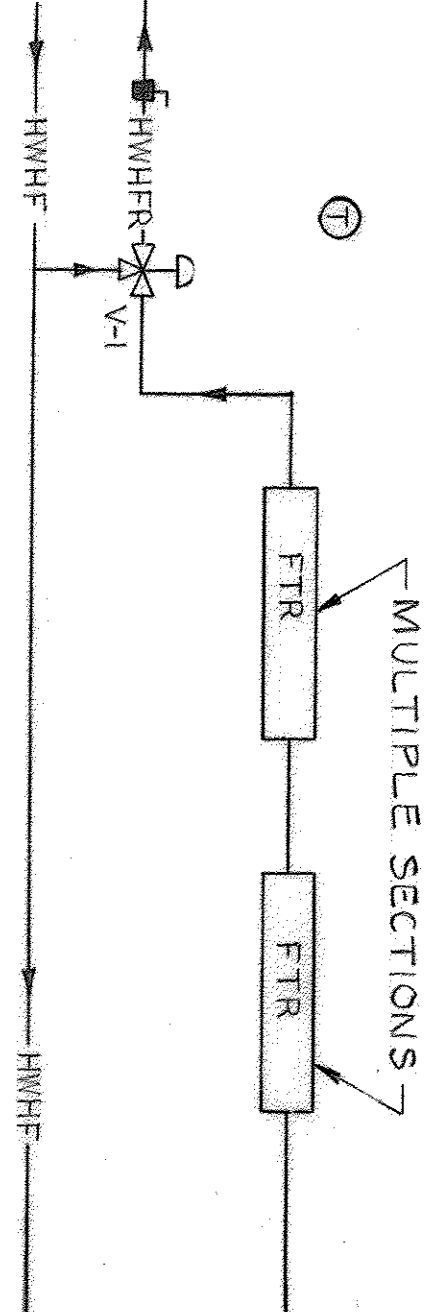
TERMINAL BOX "OCCUPIED-UNOCCUPIED" CONTROL

- 3-WAY SELECTOR SWITCH CONTROL, SO THAT A TERMINAL BOX OF UNOCCUPIED POSITION TO EXHAUST WITH VOLUME MINIMUM WHEN SWITCH [S] IS POSITIONED TO "UNOCCUPIED".
- WHEN SELECTOR SWITCH [S] IS POSITIONED TO "OCCUPIED" VOLUME REGULATOR SHALL RETURN TO NORMAL CONTROL.
- SEE DRAWING FLOOR PLANS FOR TERMINAL THAT REQUIRES AS INDICATED ON FLOOR PLANS.
- CONTROL TO BE APPLIED TO TYPE I THRU TYPE VIII TERMINALS AS INDICATED.



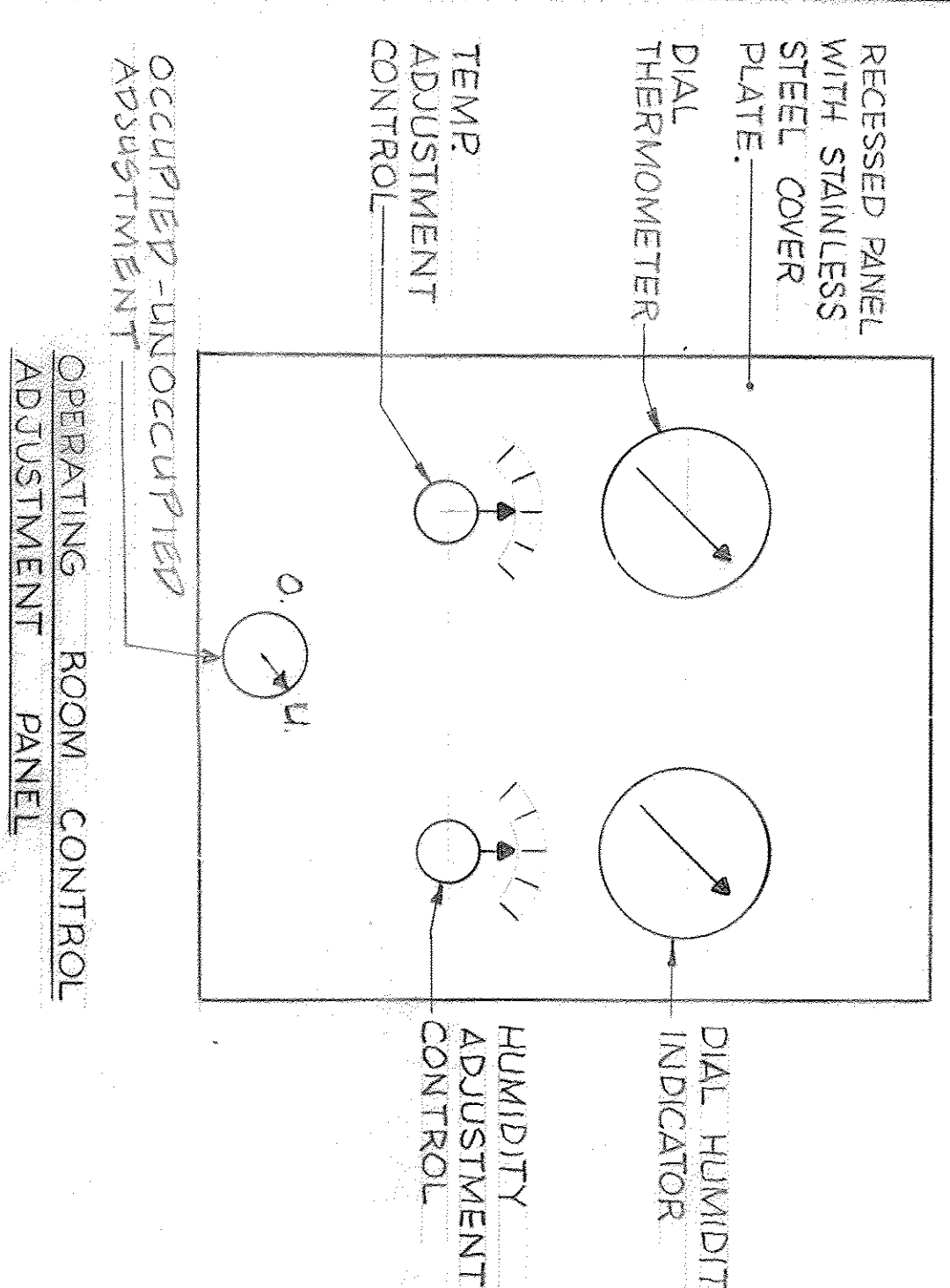
HOT WATER FINNED TUBE RADIATION
TYPE I CONTROL

- ROOMSTAT MODULATES HOT WATER VALVE V-1 TO MAINTAIN 72°F.



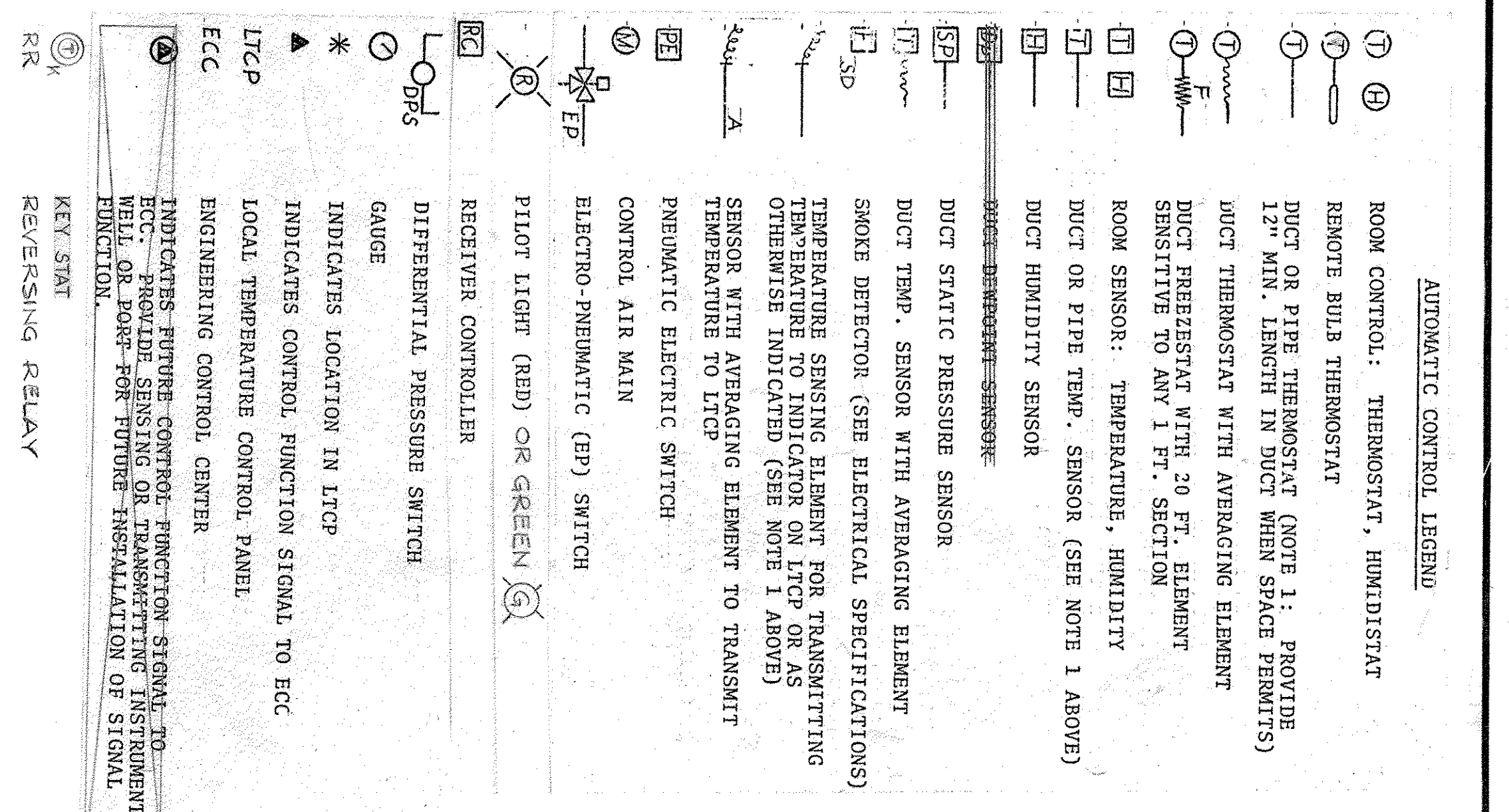
HOT WATER FINNED TUBE RADIATION
TYPE II CONTROL

- HIGH LIMIT ROOM STAT MODULATES V-1 TO MAINTAIN 72°F.
- HIGH LIMIT ROOM STAT SHALL BE LOCATED AS INDICATED.



OCCUPIED-UNOCCUPIED ROOM CONTROL

- REQUIRED FOR ROOMS, SDIOO, SDIO1, SDIO3, SDIO4, SDIO5, SDIO9, SDIO9, SDIO1, SDIO2, SDIO2a
- PROVIDE MASTER OPERATING ROOM ADJUSTMENT PANEL AT NURSING STATION (SDIOO) SHALL CONTAIN INDICATED CONTROLS AND INDICATION FOR NINE (9) OXES



NOTE: SEE DRAWING T-11 FOR ADDITIONAL LEGEND AND ABBREVIATIONS.

- AUTOMATIC CONTROL NOTES: (APPLY TO AUTOMATIC CONTROL DRAWINGS H85, H89, H90, H91, H92, H93, H94)
- ALL SAFETY SWITCHES SHALL BE ACTIVE WITH MOTOR STARTER H-O-A SWITCH IN "H" OR "V" POSITION.
 - THERMOSTAT CONTROLLING CHILLED WATER FLOW TO AIR HANDLING UNITS SHALL HAVE PROPORTIONAL INTERLOCK CONTROL.
 - MANUAL SWITCHES SHALL BE LOCATED ON LTCP CONTROL EEC OR OTHERWISE INDICATED.
 - PRESSURE SWITCHES SHALL BE ADJUSTABLE.

8-0-1-1349



RTKL/CSD/HENRY ADAMS (U.V.)
ARCHITECTS AND ENGINEERS
400 E. PRATT STREET
BALTIMORE, MD 21202

Approved Project Director
John M. Miller

Project Title
324 - BED REPLACEMENT HOSPITAL - PHASE II

Building Number
WAMC - BALTIMORE, MD.

Date
9/1/88

Project No.
511-001D

Drawing No.
1-H89

Scale
NONE

Location
WAMC - BALTIMORE, MD.

Dwg. 11/6/01/2

Veterans Administration